	Application No.	Applicant(s)	0
	09/692,297	BALLAM, PETER	V
Notice of Allowability	Examiner	Art Unit	
	Crystal J. Barnes	2121	
The MAILING DATE of this communication appeal of the communication appeal claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT ROOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in ) or other appropriate commu <b>IGHTS.</b> This application is s	this application. If not including the including the including the industrial	e course. <b>THIS</b>
1. A This communication is responsive to Amendment received	d on 09 July 2004.		
2. ☑ The allowed claim(s) is/are <u>1-9</u> .			
3. $\boxtimes$ The drawings filed on <u>02 February 2001</u> are accepted by $0$	he Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority u <ul> <li>a)  All</li> <li>b)  Some*</li> <li>c)  None</li> <li>of the:</li> </ul> </li> <li>1.  Certified copies of the priority documents hav</li> <li>2.  Certified copies of the priority documents hav</li> <li>3.  Copies of the certified copies of the priority do <ul> <li>International Bureau (PCT Rule 17.2(a)).</li> </ul> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicatio	n No	ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give	nitted. Note the attached EXA res reason(s) why the oath o	AMINER'S AMENDMENT or declaration is deficient.	NOTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Review	v (PTO-948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on t the header according to 37 CF	he drawings in the front (not th R 1.121(d).	ne back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MAT	ERIAL must be submitted.	. Note the
Attachment(s)	r 🗆 Nakisa af la	nformal Patent Application (P	TO-152)
1. Notice of References Cited (PTO-892)	_	ummary (PTO-413),	. 5 102)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No.	/Mail Date	
3. A Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 19 October 2000	•	Amendment/Comment	
4.   Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for A	iiowance
of Biological Material	9.  Other	<del></del> ·	
		•	

Application/Control Number: 09/692,297

Art Unit: 2121

### DETAILED ACTION

1. The following is a Notice of Allowability in response to Amendment received on 09 July 2004. Claims 1 and 7 have been amended. Claims 1-9 remain pending in this application.

## EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Reg. No. on 09 September 2004.

The application has been amended as follows:

# IN THE CLAIMS:

Claim 1, lines 3 and 4, deleted "said pin" and inserted "said bi-directional pin".

Claim 7, line 4, deleted "said pin" and inserted "said bi-directional pin".

Application/Control Number: 09/692,297 Page 3

Art Unit: 2121

### REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowance:

As per claim 1, the prior art of record taken alone or in combination fail to teach measuring the drive strength of the signal on the bi-directional pin and responsive to said measurement determining whether the bi-directional pin is an input or output.

As per claim 7, the prior art of record taken alone or in combination fail to teach means for measuring the drive strength of the signal on the bi-directional pin and responsive to said measurement determining whether the bi-directional pin is an input or output.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Information Disclosure Statement

4. The information disclosure statement (IDS) submitted on 19 October 2000 is being considered by the examiner.

Application/Control Number: 09/692,297

Art Unit: 2121

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following references are cited to further show the state of the art with respect to evaluating circuit designs in general:

Lam, K. et al., "Simultaneous bidirectional signalling for IC systems",

1990 IEEE International Conference on Computer Design: VLSI
in Computers and Processors Proceedings, 17-19 Sept. 1990,

Pages: 430 - 433.

Troy Scott, "Adopting VHDL for PLD design and simulation", EDN, 9

April 1998, Volume 43, Issue 8, Page 139, 7 pages.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Crystal J. Barnes whose telephone number is 703.306.5448 or 571.272.3679 after 14 October 2004. The examiner can normally be reached on Monday-Friday alternate Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on 703.308.3179 or

Application/Control Number: 09/692,297

Art Unit: 2121

Page 5

571.272.3687 after 14 October 2004. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CJB 10 September 2004 Anthony Knight
Supervisory Patent Examiner
Group 3600